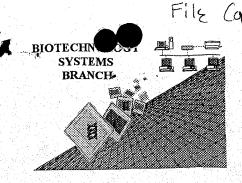
Nelso.

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer DEIVED form:

Application Serial Number: 09/446,089H

MAR 0 5 2001 TECH CENTER 1600/2900

Source: /638

Date Processed by STIC: 2/27/2

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

SERIAL NUMBER:

ERROR DETECTED SUGGESTED CORRECTION

ATT	N: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
4	_ Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
5	_ Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	_ Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
7	_ Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
8	Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9	Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <4400> sequence id number 000
10	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
11	Use of <213>Organism (NEW RULES)	Sequence(s) are missing this mandatory field or its response.
12 <u>J</u>	Use of <220>Feature (NEW RULES)	Sequence(s) are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted "file," resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

Instead, please use "File Manager" or any other means to copy file to floppy disk.

Needed



MAR 0 5 2001

1638

TECH CENTER 1600/2900

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/446,089A DATE: 02/27/2001 TIME: 14:31:44

Input Set : A:\001560-377.ST25.txt
Output Set: N:\CRF3\02272001\I446089A.raw

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27	<210)> S	EQ I	D NO	: 1													
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29	<212	2> T	YPE:	DNA														
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47	tcc	tcc	cat	cgt	tgt	aag	cac	att	cta	t.ta	ttt	ata	ata	acc	tta	ttc	209	
48	Ser	Ser	His	Arg	Cys	Lys	His	Ile	Leu	Leu	Phe	Ile	Ile	Thr	Leu	Phe		
49			25					30					35					
51	cta	ct.t	ata	gtt	ggc	ctg	tac	atc	gcc	aac	tct	ctc	gcc	tat	gcc	cgg	257	
	Leu		Ile	Val	Gly	Leu		Ile	Ala	Asn	Ser		A1a	Tyr	Ala	Arg		
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RAW SEQUENCE LISTING PATENT APPLICATION: US/09/446,089A

DATE: 02/27/2001 TIME: 14:31:44

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	att	acc		ttc	aaq	aaa	qcc	att	gag	ctt	atq	cqa	gct	cta	cct.	gag		497
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73		120	- -			••	125					130						
	σat.		cct	cat	age	tta	aaq	caa	caa	act	aac	atc	cat	tgc	get	tac		545
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		val			GIn	Met	. val			: Alt	а гус	a Tun			ı Leu	Phe		
109			265					270					- 275					977
111	tte	ggc	: cgc	cca	tac	: cga	. cgt	. ggg	gac	Caa	a gag	j gul	200	999	9 L9	ggg	٠.	9//
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		Asn	Thr	Pro			GLu	. Asr	n Met			i Pne	э Туг	ser				
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		Asp	Pro			Phe	Ala	His			Asr.	ı val	. Asp			Trp		
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129			345					350					355					1015
		_			_				-							gag		1217
130	Pro	Asp	Phe	Leu	. Asp) Ala	Ser	Phe	e Val	. Phe	e Tyr	: Asp) GIU	ı Asn	. Ala	Glu		
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,089A

DATE: 02/27/2001 TIME: 14:31:44

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	Met																
	375					380					385					390	
139	tac	gtt	tat	caa	gat	gtg	gag	att	aeg	tgg	ctc	aac-	act	cgt	cca	aca	1313
140	Tyr	Val	Tyr	Gln	Asp	Val	Glu	Ile	Pro	Trp	Leu	Asn	Thr	Arg	Pro	Thr	
141					395					400					405		
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144	Pro	Lys	Val	Ser	Pro	Ser	Leu	Leu	Lys	Lys	Phe	His	Arg	Thr	Asn	Thr	
145				410					415					420			
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	Ala	Asn		Arg	Gln	Val	Phe		Ala	Ile	Leu	Asp		Val	Leu	Lys	
149			425					430					435				
	gtt			_	10- 14	_	_			_	-						1457
	Val		Val	Thr	Arg	Pro	-	Lys	Thr	Arg	Ser	-	Lys	GLu	Lys	Asp	
153		440					445				. 4. 4.	450					1505
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	Ser	_											-				
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171	t.ta	aca	t.tg	tcg	at.t.	tgt	gat	att	ttg	gag	gat	ttg	gat	gct	gac	gaa	1697
172	Leu	Thr	Leu	Ser	Ile	Cys	Asp	Ile	Leu	Glu	Asp	Leu	Asp	Ala	Asp	Glu	
173		520					525					530					
	gat																1745
176	Asp	Asp	Tyr	Val	Leu	Val	Thr	Leu	Val	Pro	Arg	Asn	Ala	Gly	Asp	Ala	
	535					540					545					550	
	atc					-	~		~ ~		-		taat	caaat	itc		1791
	Ile	Lys	Ile	His		Val	Lys	Ile	Glu		Asp	Gly					
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,089A

DATE: 02/27/2001 TIME: 14:31:44

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Output Set: N:\CRF3\02272001\1446089A.raw

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210		50		-2			55					60	-			
213	Ala	Pro	Asp	Val	Thr	Lys	Cys	Gly	Gln	Pro	Asp	Leu	Pro	Pro	Gly	Thr
214						70					75					80
217	Ala	Pro	Ile	Asn		Cys	Pro	Pro	Ile		Ala	Lys	Ile	Ile		Phe
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226	Mot	70 200 67	115	Tour	D:00	Clar	7h carm	120	Dwo	7 mar	Cor	Dho	125	Cln	Cln	717
230	Met.	Arg 130	Ala	Leu	PIO	GIU	135	Азр	PIO	Arg	Ser	140	пÃр	GIII	GTH	ALG
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		Asn	Leu	Lys	Leu		Ile	His	Arg	Ser	Trp	Leu	Phe	Phe	Pro	Phe
238					165					170	-				175	
241	His	Arg	Tyr	Tyr	Ile	Tyr	Phe	Phe	Glu	Arg	Ile	Leu	Gly	Lys	Leu	Ile
242				180					185			7		190		
245	Asn	Asp		Thr	Phe	Ala	Leu		Phe	Trp	Asn	Tyr		Ser	Pro	Gly
246			195					200					205			
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262	1100	11 11 0		260	25012	22,2			265					270		
265	Lys	Thr	Pro	Gln	Leu	Phe	Phe	Gly	Arg	Pro	Tyr	Arg	Arg	Gly	Asp	Gln
266	_		275					280	_				285			
269	Glu	Phe	Pro	Gly	Val	Gly	Ser	Ile	Glu	Leu	Val	Pro	His	Gly	Met	Ile
270		290					295					300				
		Leu	Trp	Thr	Gly		Glu	Asn	Thr	Pro		Gly	Glu	Asn	Met	_
	305				mm 1	310	_		_	- 1	315	- 1	- 2	** *	** '	320
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278	Aan	17 n 1	Aan	Arror	325 Mot		Cor	Tlo	mrn	330	m la v	Tou	Clar	Clar	335 Bro	λησι.
282	HSII	Val	ASP	340	met	TTD	261	116	345	пур	TILL	пеа	атй	350	FIU	ALG
	Ara	Thr	Asp		Thr	Asp	Pro	Asp		Leu	Asp	Ala	Ser		Val	Phe
286	**** "		355			1101		360	1 110	200	rior	X 3/ 32 4A	365			
	Tyr	Asp		Asn	Ala	Glu	Met		Arg	Val	Lys	Val	Arg	Asp	Cys	Leu
290	_	370					375		_		-	380	_	-	+	
293	Asp	Glu	Lys	Lys	Leu	Gly	Tyr	Val	Tyr	Gln	Asp	Val	Glu	Ile	Pro	Trp
294	385					390					395					400
297	Leu	Asn	Thr	Arg		Thr	Pro	Lys	Val		Pro	Ser	Leu	Leu	_	Lys
298	1	1	_	•	405		- 3	_	_	410			_,		415	
301	Phe	His	Arg	Thr	Asn	Thr	Ala	Asn	Pro	Arg	GIn	Val	Phe	Pro	Ala	Ile





RAW SEQUENCE LISTING DATE: 02/27/2001 PATENT APPLICATION: US/09/446,089A DATE: 02/27/2001 TIME: 14:31:44

Input Set: A:\001560-377.ST25.txt
Output Set: N:\CRF3\02272001\1446089A.raw

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306 435 440 445
309 Ser Arg Lys Glu Lys Asp Glu Leu Glu Glu Ile Leu Val Ile Glu Gly
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313 Ile Glu Leu Glu Arg Asp His Gly His Val Lys Phe Asp Val Tyr Ile
314 465 470 475
317 Asn Ala Asp Glu Asp Asp Leu Ala Val Ile Ser Pro Glu Asn Ala Glu
318
                485 490 495
321 Phe Ala Gly Ser Phe Val Ser Leu Trp His Lys Pro Ile Lys Gly Lys
322
              500
                            505
                                                 510
325 Arg Thr Lys Thr Gln Leu Leu Thr Leu Ser Ile Cys Asp Ile Leu Glu
                         520
329 Asp Leu Asp Ala Asp Glu Asp Asp Tyr Val Leu Val Thr Leu Val Pro
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346 <400> SEQUENCE: 3
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349 1
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352 <210> SEQ ID NO: 4
353 <211> LENGTH: 12
354 <212> TYPE: PRT
355 <213> ORGANISM: Antirrhinum majus
357 <400> SEQUENCE: 4
359 Lys Ile Val Tyr Arg Gln Met Val Ser Ser Ala Lys
360 1
                                   1.0
362 <210> SEQ ID NO: 5
363 <211> LENGTH: 18
364 <212> TYPE: PRT
365 <213> ORGANISM: Antirrhinum majus
367 <400> SEQUENCE: 5
369 Lys Thr Pro Gln Leu Phe Phe Gly Arg Pro Tyr Arg Arg Gly Asp Gln
370 1
372 Glu Phe
375 <210> SEQ ID NO: 6
376 <211> LENGTH: 29
377 <212> TYPE: PRT
378 <213> ORGANISM: Antirrhinum majus
380 <220> FEATURE:
381 <221> NAME/KEY: UNSURE
382 <222> LOCATION: (9)..(9)
383 <223> OTHER INFORMATION: Amino acid 9 is Xaa wherein Xaa = unknown or other.
```

385 <220> FEATURE:

<210> 10 <211> 6 <212> PRT <213> Artificial Sequence

See Hem 12 on Evror Summary Sheet

His Ala Val Cys Asn Glu

<400>

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.





VERIFICATION SUMMARY

PATENT APPLICATION: US/09/446,089A

DATE: 02/27/2001 TIME: 14:31:45

Input Set : A:\001560-377.ST25.txt

Output Set: N:\CRF3\02272001\I446089A.raw

L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:466 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:466 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13